

Polymer Material Properties

Formulas

Secret Polymer

© Generic (ABS, ...) **©** Trade Name



Materials Home

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- Material Science

Overview Characteristics Comparisons

Selection Criteria

Applications Flow Characteristics Datasheet Primer

Major Categories

Polymer Index History Timeline List by Process List by ThermoP/S

Specific Polymer

Category / Grades Datasheet Supplier Info

Resources

Bibliography

Related Suppliers

Inventables
Protomold
Canadian Laser
Dangar Eng.
Astro Model
more...

Suggested Reading

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Ethylene vinyl alcohol

Design Center

Mathematics
List of Suppliers

State: ethylene / vinyl alcohol

Processes

Material Properties

na i i im contina		Conditions			
Mechanical Properties		State 1	State 2	ASTM	
Elastic Modulus (MPa)	2070 - 2657	compressive		D638	
Tensile Strength (MPa)	38 - 95	at break		D638	
	51 - 72	at yield		D638	
Flexural Strength (MPa) at yield or break	2 - 2			D790	
Elongation at break (%)	180 - 330			D638	
Izod Impact (J/cm of notch) 1/8" thick specimen unless noted	0.5 - 0.9			D256A	

mt 1 d Clastical Businestics		Conditions	
Physical & Electrical Properties		State	ASTM
Specific Gravity	1.12 - 1.2		D792
Water Absorption (% weight increase)	6.7 - 8.6	after 24 hrs	D570

		Conditions	3
Processing Properties		Туре	ASTM
Melt Flow (gm/10 min)	0.8 - 14		D1238
Melting Temperature (°C)	49 - 72	T_g , amorphous	
Melting Temperature (°C)	142 - 191	T _m , crystalline	
Processing Temperature (°C)	185 - 249	injection molding	
	185 - 249	extrusion	
Compression Patio	3 - 4		

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